**Factor completely. If the polynomial is not factorable, write *prime*.**

**Lesson 5-5**

**Skills Practice**

***Solving Polynomial Equations***

**5-5**

*Glencoe Algebra 2*

Chapter 5

**31**

**24.** *b*3 – 8*b*2 + 16*b* = 0

**23.** *t*4 – 3*t*3 – 40*t*2 = 0

**22.** *x*3 = 3*x*2

**21.** *a*3 – 9*a*2 + 14*a* = 0

**Solve each equation.**

**20.** 6*b*5 + 3*b*3 – 1

**19.** 12*x*4 – 7*x*2

**18.** *x*8 + 4*x*4 + 9

**17.** 100*a*6 + *a*3

**16.** 3*y*8 – 4*y*2 + 3

**15.** 5*x*4 + 2*x*2 – 8

**Write each expression in quadratic form, if possible.**

**14.** *m*4 – 1

**13.** *n*3 – 125

**12.** *y*2 + 18*y* + 81

**11.** 9*x*2 + 25

**10.** *d*2 – 12*d* + 36

**9.** 4*f* 2 – 64

**8.** *z*2 – 8*z* – 10

**7.** *b*2 + 8*b* + 7

**6.** 2*ak* – 6*a* + *k* – 3

**5.** *a*2 + 7*a* – 18

**4.** 8*j*3*k* – 4*jk*3 – 7

**3.** 21*x*3 – 18*x*2*y* + 24*xy*2

**2.** 19*x*3 – 38*x*2

**1.** 7*x*2 – 14*x*

NAME DATE PERIOD



